

ABSTRACT

Systems, devices and methods are disclosed for treating fractures. The systems, devices and methods may include one or both of an implant, such as an intramedullary nail, and a fastening assembly, such as a lag screw and compression screw assembly. The implant in some embodiments has a proximal section with a transverse aperture and a cross-section that may be shaped to more accurately conform to the anatomical shape of cortical bone and to provide additional strength and robustness in its lateral portions, preferably without requiring significant additional material. The fastening assembly may be received to slide, in a controlled way, in the transverse aperture of the implant. In some embodiments, the engaging member and the compression device are configured so that the compression device interacts with a portion of the implant and a portion of the engaging member to enable controlled movement between the first and second bone fragments. This configuration is useful for, among other things, compressing a fracture.